

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - NSPS SOURCE - RENEWAL  
"REVISED"

PERMITTEE

Magellan Pipeline Company, LP  
Attn: Terri Hollomon  
Post Office Box 22186, MD 27-3  
Tulsa, Oklahoma 74121-2186

Application No.: 96080089

I.D. No.: 113825AAG

Applicant's Designation:

Date Received: August 16, 2006

Subject: Bulk Gasoline Terminal

Date Issued: August 26, 2006

Expiration Date: July 26, 2011

Location: 16490 E 100 North Road, Heyworth

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of storage tanks (#149, 150, 208, 696, 697, 841, 848, 849, 850, and 1216) and a truck loading rack controlled by a vapor combustion system pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 100 tons/yr for VOM, 10 tons/yr for a single HAP and 25 tons/yr for combined HAPs). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
- 2a. The truck loading rack is subject to 40 CFR Part 60, Subpart XX: New Source Performance Standard (NSPS) for Bulk Gasoline Terminals. The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The organic material emissions from the truck/vapor recovery system shall not exceed 35 milligrams of total organic compounds per liter of gasoline loaded, pursuant to the New Source Performance Standard.
- c. The Permittee shall fulfill applicable notification and recordkeeping requirements of the NSPS, 40 CFR 60.505 for the truck loadout. This includes recordkeeping of pressure-vacuum results from trucks that load at the terminal.

- 3a. This permit is issued based on Tank 841 and Tank 208 being subject to New Source Performance Standards (NSPS), 40 CFR 60 Subparts A and Kb. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. Tank 841 and Tank 208 shall be equipped with a fixed roof in combination with an internal floating roof meeting the following specifications [40 CFR 60.112b(a)(1)]:
  - i. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible [40 CFR 60.112b(a)(1)(i)].
  - ii. Each internal floating roof shall be equipped with the following closure device between the wall of the storage vessel and the edge of the internal floating roof [40 CFR 60.112b(a)(1)(ii)]:
    - A. For Tank 841, a mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof [40 CFR 60.112b(a)(1)(ii)(C)].
    - B. For Tank 208, two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous [40 CFR 60.112b(a)(1)(ii)(B)].
  - iii. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface [40 CFR 60.112b(a)(1)(iii)].
  - iv. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float

well shall be bolted except when they are in use [40 CFR 60.112b(a) (1) (iv)].

- v. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports [40 CFR 60.112b(a) (1) (v)].
  - vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting [40 CFR 60.112b(a) (1) (vi)].
  - vii. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening [40 CFR 60.112b(a) (1) (vii)].
  - viii. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover [40 CFR 60.112b(a) (1) (viii)].
  - ix. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover [40 CFR 60.112b(a) (1) (ix)].
- c. The Permittee shall comply with the applicable testing and procedures requirements in 40 CFR 60.113b of the NSPS.
  - d. The Permittee shall comply with the applicable reporting and recordkeeping requirements in 40 CFR 60.7 and 60.115b of the NSPS.
  - e. The Permittee shall comply with the applicable monitoring of operations requirements in 40 CFR 60.116b of the NSPS.
- 4a. This permit is issued based on Tank 149 and Tank 150 being subject to New Source Performance Standards (NSPS), 40 CFR 60 Subparts A and Ka. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
  - b. Tank 149 and Tank 150 shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. The cover is to be floating at all times, (i.e., off the leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the cover is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Each opening in the cover except for automatic bleeder vents and the rim space vents is to provide a projection below the liquid surface. Each opening in the cover except for automatic bleeder vents, rim space vents, stub drains and leg sleeves is to be equipped with a

cover, seal, or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Automatic bleeder vents are to be closed at all times when the cover is floating except when the cover is being floated off or is being landed on the leg supports. Rim vents are to be set to open only when the cover is being floated off the leg supports or at the manufacturer's recommended setting [40 CFR 60.112a(a)(2)].

- c. The Permittee shall comply with the applicable testing and procedures requirements in 40 CFR 60.113a of the NSPS.
- d. The Permittee shall comply with the applicable monitoring of operations requirements in 40 CFR 60.115a of the NSPS.

Note: the replacement of the internal floating for Tank 848 in 1983 did not constitute reconstruction of the tank, and because there were no other changes or increases in emissions associated with this tank at that time, the replacement does not trigger the requirements of the NSPS, 40 CFR 60 Subpart Ka.

- 5. This permit is issued based on Tank 149, Tank 150, Tank 208, Tank 841, Tank 848, and Tank 850 be subject to 35 IAC Part 215 Subpart B: Organic Emissions From Storage and Loading Operations, which provides that:
  - a. The tanks shall be equipped with a floating roof which rests on the surface of the volatile organic liquid and is equipped with a closure seal or seals between the roof edge and the tank wall. Such floating roof shall not be permitted if the volatile organic liquid has a vapor pressure of 86.19 kPa (12.5 psia) or greater at 294.3 K (70 F). No person shall cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to such tanks, except during sampling or maintenance operations [35 IAC 215.121(b)(1)].
  - b. The following requirements apply to tanks 848 and 850, during periods of time in which volatile petroleum liquid is stored beginning with the first day the volatile petroleum liquid is stored, i.e., if a very low vapor pressure material is stored, the below requirements are not applicable.
    - i. The tank is equipped with one of the vapor loss control devices specified in 35 IAC 215.121(b) [35 IAC 215.123(b)(1)].
    - ii. There are no visible holes, tears or other defects in the seal or any seal fabric or material of any floating roof [35 IAC 215.123(b)(2)];
    - iii. All openings of any floating roof deck, except stub drains, are equipped with covers, lids or seals such that [35 IAC 215.123(b)(3)]:

- A. The cover, lid or seal is in the closed position at all times except when petroleum liquid is transferred to or from the tank [35 IAC 215.123(b) (3) (A)];
  - B. Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports [35 IAC 215.123(b) (3) (B)]; and
  - C. Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting [35 IAC 215.123(b) (3) (C)];
- iv. Routine inspections of floating roof seals are conducted through roof hatches once every six months [35 IAC 215.123(b) (4)];
  - v. A complete inspection of the cover and seal of any floating roof tank is made whenever the tank is emptied for reasons other than the transfer of petroleum liquid during the normal operation of the tank, or whenever repairs are made as a result of any semi-annual inspection or incidence of roof damage or defect [35 IAC 215.123(b) (5)]; and
  - vi. A record of the results of each inspection conducted under 35 IAC 215.123(b) (4) or (b) (5) is maintained [35 IAC 215.123(b) (6)].

Note: Tanks 149, 150, 208, and 841 are not subject to the requirements of 35 IAC 215.123(b) because the tanks are subject to NSPS, pursuant to 35 IAC 215.123(a) (5).

- 6a. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere during the loading of any organic material from the aggregate loading pipes of any loading facility having through-put of greater than 151 cubic meters per day (40,000 gal/day) into any railroad tank car, tank truck or trailer unless such loading facility is equipped with submerged loading pipes, submerged fill, or a device that is equally effective in controlling emissions and is approved by the Agency according to the provisions of 35 IAC 201 [35 IAC 215.122(a)].
- b. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the Agency according to the provisions of 35 IAC 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b) (2) [35 IAC 215.122(b)].

7. At all times, including periods of shakedown and testing, the Permittee shall, to the extent practicable, maintain and operate the bulk terminal, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions [40 CFR 60.11(d)].
- 8a. The Permittee shall not store material with a maximum true vapor pressure of 3.5 kPa (0.5 psia) or greater in Tanks 696 and 697. As a consequence of this condition, Tanks 696 and 697 are not subject to 40 CFR Part 60, Subpart Kb, pursuant to 40 CFR 60.110b(b).
- b. The Permittee shall not store material with a true vapor pressure of 1.5 psia or greater in Tanks 849 and 1216 at standard conditions. As a consequence of this condition, Tanks 849 and 1216 are not subject to the requirements of 35 IAC 215.121 and 35 IAC 215.123.
- 9a.
  - i. Gasoline and other petroleum products with a vapor pressure of 2.5 psia or greater shall only be loaded out through the truck loading racks, using submerged loading, and only with the vapor control system properly operating.
  - ii. Other petroleum products with a vapor pressure of less than 2.5 psia may be loaded without the vapor control system provided the requirements of 35 IAC 215.122 continue to be met.
- b. Operation of the terminal shall not exceed the following limits:
  - i. Loadout of gasoline (at the truck loading rack):  
55,000,000 gal/month and 332,000,000 gal/yr
  - ii. Loadout of other petroleum products (at the truck loading rack):  
70,000,000 gal/month and 420,480,000 gal/yr
  - iii. Storage tanks throughput:
    - Gasoline: 156,000,000 gal/month and 938,196,000 gal/yr.
    - Other Petroleum Products: 156,000,000 gal/month and 938,196,000 gal/yr.
- c. Emissions of VOM from the terminal shall not exceed the following limits:

<u>Item of Equipment</u>	<u>VOM Emissions</u>	
	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
Loading Rack	6.1	64.9
Storage Tanks*	2.6	25.8

- \* Excludes fugitive components (valves, flanges, etc.), Additive Tanks and Sump Tanks. These emission units are included in Attachment A

- d. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from Illinois EPA.
  - e. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- 10a. Pursuant to 40 CFR 63.10(b) (3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b) (3) and to record the results of that determination under 40 CFR 63.10(b) (3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.
- b. The Permittee shall keep records of the following items:
    - i. A. The throughput of gasoline and other products through the truck loading racks when the vapor combustion system is operating properly (gallons/month and gallons/year).

- B. The throughput of other petroleum products through the truck loading racks when the vapor combustion system is not operating properly or not operating (gallons/month and gallons/year).
    - ii.
      - A. Periods of time when the vapor combustion system is not operating properly or not operating.
      - B. Identification of which products are loaded during periods of time when the vapor combustion system is not operating properly or not operating.
      - C. VOM emissions during periods of time when the vapor combustion system is not operating properly or not operating (tons/month and tons/year).
    - iii. Records of the throughput of each type of material stored (gallons/month and gallons/year).
    - iv. VOM and HAP emissions from the loading rack and storage tanks, with supporting calculations and documentation.
  - c. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five years from the date of entry and shall be made available for inspection and copying by Illinois EPA and USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Agency request for records during the course of a source inspection.
11. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to Illinois EPA's Compliance Unit in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
12. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276



and one (1) copy shall be sent to Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
2009 Mall Street  
Collinsville, Illinois 62234

It should be noted that this permit has been revised to correct some administrative errors and provide clarification on rule applicability.

If you have any questions on this, please call Jason Schnepf at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:JMS:psj

cc: Illinois EPA, FOS Region 3  
LOTUS NOTES

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the bulk gasoline terminal operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of VOM, 10 tons per year of a single HAP, and 25 tons per year of combined HAP's at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

<u>Emission Unit</u>	E M I S S I O N S (Tons/Year)				
	<u>CO</u>	<u>NO<sub>x</sub></u>	<u>VOM</u>	<u>Single HAP</u>	<u>Total HAP</u>
Loading Rack			64.9		
Storage Tanks			25.8		
Fugitive Losses (flanges, valves, etc.)			0.4		
Additive Tanks			1.2		
Sump Tanks			0.1		
Vapor Combustion System	31.5	12.6			
	31.5	12.6	92.4	< 10	< 25

JMS:psj